## FILE 'HOME' ENTERED AT 12:58:01 ON 22 AUG 2005

- => file biosis caplus caba agricola
- => s elongate and maize
- L1 115 ELONGATE AND MAIZE
- -=> duplicate remove 11
- L2 79 DUPLICATE REMOVE L1 (36 DUPLICATES REMOVED)
- => d ti 1-79
- L2 ANSWER 1 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN
- TI The roothairlessl gene of maize encodes a homolog of sec3, which is involved in polar exocytosis
- L2 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Effectiveness of biostimulator Bioalgeen S 90 with selected adjuvants applied in grain corn culture
- L2 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Understanding catalytic properties and functions of maize starch synthase isozymes
- L2 ANSWER 4 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI The elongation rate at the base of a maize leaf shows an invariant pattern during both the steady-state elongation and the establishment of the elongation zone.
- L2 ANSWER 5 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Latrunculin B-induced plant dwarfism: plant cell elongation is F-actin-dependent.
- L2 ANSWER 6 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Plasticity versus canalization: population differences in the timing of shade-avoidance responses.
- L2 ANSWER 7 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Differing selection in alternative competitive environments: shade-avoidance responses and germination timing.
- L2 ANSWER 8 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Meloidogyne petuniae n. sp. (Nemata: Meloidogynidae), a root-knot nematode parasitic on petunia in Brazil.
- L2 ANSWER 9 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Tylencholaimellus brasilensis sp. n. and T. cinctus (Nematoda: Dorylaimida) from tropical areas.
- L2 ANSWER 10 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 2
- TI Experimental analysis of tassel development in the maize mutant Tassel seed 6.
- L2 ANSWER 11 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Formation of [alpha] and [beta] conidia by Phaeocytostroma ambiguum.
- L2 ANSWER 12 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Gametophyte genetics in Zea mays L.: dominance of a restoration-of-fertility allele (Rf3) in diploid pollen.
- L2 ANSWER 13 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Lodicule function and filament extension in the grasses: potassium ion movement and tissue specialization.

- L2 ANSWER 14 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Effects of dietary lipids on the fatty acid composition of triglycerides and phospholipids in tissues of white sturgeon.
- L2 ANSWER 15 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN End-to end annealing of plant microtubules by the p86 subunit of eukaryotic initiation factor-(iso) 4F.
- .L2 ANSWER 16 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Evidence for anoxic zones in 2-3 mm tips of aerenchymatous maize roots under low 0-2 supply.
- L2 ANSWER 17 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Post-transcriptional regulation of gene expression in oxygen-deprived roots of maize.
- L2 ANSWER 18 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Analyses of mutants of three genes that influence root hair development in Zea mays (Gramineae) suggest that root hairs are dispensable.
- L2 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Response of winter crops to manganese application on a loamy sand soil
- L2 ANSWER 20 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Characterization of growth-related osmiophilic particles in corn coleoptiles and deepwater rice internodes.
- L2 ANSWER 21 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Tansley review Number 66. The current status of the acid-growth hypothesis.
- L2 ANSWER 22 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI The epidermal surface of the maize root tip: III. Isolation of the surface and characterization of some of its structural and mechanical properties.
- L2 ANSWER 23 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Transient responses of cell turgor and growth of maize roots as affected by changes in water potential.
- L2 ANSWER 24 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI The epidermal surface of the maize root tip: I. Development in normal roots.
- L2 ANSWER 25 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Mouse peritoneal macrophage prostaglandin El synthesis is altered by dietary gamma-linolenic acid.
- L2 ANSWER 26 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI The elongate method of generating tetraploid maize stocks, revisited.
- L2 ANSWER 27 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Effect of dietary fats on the fatty acid compositions of serum and immune tissues in chickens.
- L2 ANSWER 28 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI CATALASE AND SUPEROXIDE DISMUTASE GENE EXPRESSION AND DISTRIBUTION DURING STEM DEVELOPMENT IN MAIZE.
- L2 ANSWER 29 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Economic injury levels for management of stalk borer (Lepidoptera: Noctuidae) in corn.
- L2 ANSWER 30 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Interspace (is) and string cob (Sg1, Sg2) as stabilizing factors for the

expression of key trait genes (tr, pd).

- L2 ANSWER 31 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI THE OUTER EPIDERMIS OF AVENA AND MAIZE COLEOPTILES IS NOT A UNIQUE TARGET FOR AUXIN IN ELONGATION GROWTH.
- L2 ANSWER 32 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Adenylates contents and energy charge in 'gamma-seedlings' of maize.
- L2 ANSWER 33 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI CHANGES IN CELL DIMENSIONS IN DEVELOPING ROOTS OF IN-VITRO CULTURED IMMATURE MAIZE EMBRYOS ZEA-MAYS. L.
- L2 ANSWER 34 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI The arrangement of microtubules in leaves of monocotyledonous and dicotyledonous plants.
- L2 ANSWER 35 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI STUDIES ON CHANGES OF GOLGI APPARATUS IN THE DIFFERENT DEVELOPING REGIONS OF MAIZE SEEDLING ROOT.
- L2 ANSWER 36 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Sexual feedback, internode elongation and perfect-flowered dwarfs.
- L2 ANSWER 37 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI THE RESPONSE OF THE PRIMARY ROOT MERISTEM OF ZEA-MAYS L. TO VARIOUS PERIODS OF COLD.
- L2 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Relationship between the elongation of maize coleoptile and its hydroxyproline-rich protein
- L2 ANSWER 39 OF 7.9 CABA COPYRIGHT 2005 CABI on STN
- TI Capacity of the European eel (Anguilla anguilla) to elongate and desaturate dietary linoleic acid.
- L2 ANSWER 40 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI The genus Xiphinema in South Africa. XV. A redescription of X. mluci Heyns, 1976 and descriptions of three closely related new species (Nematoda: Dorylaimida).
- L2 ANSWER 41 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI ULTRASTRUCTURAL ANALYSIS OF THE SPERM CELLS OF MATURE POLLEN OF MAIZE ZEA-MAYS.
- L2 ANSWER 42 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI BIOECOLOGY OF RHINOCORIS-FUSCIPES FABR. REDUVIIDAE A POTENTIAL PREDATOR ON INSECT PESTS.
- L2 ANSWER 43 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Histological development of Sphacelotheca reiliana on Zea mays.
- L2 ANSWER 44 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI HEMICELLULOSES OF CELL WALLS OF A PROSO MILLET PANICUM-MILIACEUM CULTIVAR ABARR CELL SUSPENSION CULTURE.
- L2 ANSWER 45 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Outer-inner vascular connections and glume phenotype.
- L2 ANSWER 46 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Regional variability in Phaseolus vulgaris L. (II) Seed character frequencies in Transylvania.
- L2 ANSWER 47 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI A MARASMIELLUS DISEASE OF MAIZE IN LATIN AMERICA.

- L2 ANSWER 48 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI WHICH PARTS OF GRAMINEOUS SEEDLINGS MAY **ELONGATE** IMMEDIATELY AFTER GERMINATION?.
- L2 ANSWER 49 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Unreduced apomixis in 76-chromosome hybrids of maize with Tripsacum.
- L2 ANSWER 50 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Mapping of dv and el.
- L2 ANSWER 51 OF 79 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

  (2005) on STN
- TI Occurence of double-nonreduced egg cells in maize homozygous for the elongate gene Zea mays.
- L2 ANSWER 52 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Frequency of occurrence of doubly unreduced egg cells in maize homozygous for the gene elongate.
- L2 ANSWER 53 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI OCCURRENCE OF DOUBLE NONREDUCED EGG CELLS IN MAIZE HOMO ZYGOUS FOR THE ELONGATE GENE.
- L2 ANSWER 54 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI STERILIZING EFFECTS OF TRI METHYL PHOSPHATE IN DROSOPHILA-MELANOGASTER.
- L2 ANSWER 55 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Indeterminate vs. determinate ears.
- L2 ANSWER 56 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI [Plant-parasitic and free-living nematodes in south-eastern USSR]. Fitoparaziticheskie i svobodnozhivushchie nematody yugo-zapada SSSR.
- L2 ANSWER 57 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI ELONGATION OF MESOCOTYL AND COLEOPTILE IN GRAMINEOUS CROPS 1. THE ELONGATION RATIO OF MESOCOTYL AND COLEOPTILE.
- L2 ANSWER 58 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Seven new species in a new nematode subfamily Duosulciinae (Tylenchidae), with proposals for Duosulcius gen.n., Zanenchus gen.n. and Neomalenchus gen.n.
- L2 ANSWER 59 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Responses of selected hormonal systems to mefluidide.
- L2 ANSWER 60 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI GROSS MORPHOLOGY OF SCLEROSPORA-PHILIPPINENSIS ISOLATES FROM BUKIDNON ON MAIZE INBRED LINES.
- L2 ANSWER 61 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI CORRELATIONS OF PERICARP THICKNESS WITH SEVERAL CHARACTERISTICS OF BULGARIAN AND FOREIGN MAIZE HYBRIDS AND LINES.
- L2 ANSWER 62 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Choice of oviposition site by Chilo, the sorghum stem-borer.
- L2 ANSWER 63 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Some characteristics of endosperm ultrastructure in a radiation-induced dwarf maize mutant.
- L2 ANSWER 64 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Study of the mutagenic effect of ethyl methanesulphonate and

 $N\text{-}nitroso\text{-}N\text{-}methylurethane}$  in inducing endosperm mutations in inbred maize lines.

- L2 ANSWER 65 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Growth and survival of young plant roots in dry soil.
- L2 ANSWER 66 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Experimental automictic parthenogenesis in maize.
- L2 ANSWER 67 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Stimulating parthenogenesis in maize by doubling the chromosome number in meiosis.
- L2 ANSWER 68 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI CROSSING-OVER AND DI PLOID EGG FORMATION IN THE ELONGATE MUTANT OF MAIZE.
- L2 ANSWER 69 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Study of the effect of ethyl methanesulphonate and N-nitroso-N-methylurethane after treating the seeds of inbred maize lines.
- L2 ANSWER 70 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Effect of ethanol on meiotic chromosome behavior.
- L2 ANSWER 71 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Three systems for two-ranked ears in corn.
- L2 ANSWER 72 OF 79 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- TI Crossing over and diploid egg formation in the **elongate** mutant of maize
- L2 ANSWER 73 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI The biochemical cytogenetics of a meiotic mutant in maize.
- L2 ANSWER 74 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Bacterial leaf stripe of corn in the Philippines.
- L2 ANSWER 75 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Two generations of automictic parthenogenesis in maize.
- L2 ANSWER 76 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 22
- TI Two independently inherited electrophoretic variants of the lysine-rich histones of maize (Zea mays)
- L2 ANSWER 77 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Preserve Guatemalan teosinte, a relict link in corn's evolution.
- L2 ANSWER 78 OF 79 CABA COPYRIGHT 2005 CABI on STN
- TI Georeaction of decapped roots.
- L2 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Flowering behavior of sugarcane X maize hybrid and the emergence of its tassel by the application of gibberellic acid
- => s 12 and map?
- L3 4 L2 AND MAP?
- => d ti 1-4
- L3 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI End-to end annealing of plant microtubules by the p86 subunit of eukaryotic initiation factor-(iso)4F.

- L3 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Analyses of mutants of three genes that influence root hair development in Zea mays (Gramineae) suggest that root hairs are dispensable.
- L3 ANSWER 3 OF 4 CABA COPYRIGHT 2005 CABI on STN
- TI Mapping of dv and el.
- L3 ANSWER 4 OF 4 CABA COPYRIGHT 2005 CABI on STN
- TI Bacterial leaf stripe of corn in the Philippines.

## => d bib abs 2 3 4

- L3 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- AN 1994:405671 BIOSIS
- DN PREV199497418671
- TI Analyses of mutants of three genes that influence root hair development in Zea mays (Gramineae) suggest that root hairs are dispensable.
- AU Wen, Tsui-Jung; Schnable, Patrick S. [Reprint author]
- CS Dep. Zool. Genetics, Iowa State Univ., Ames, IA 50011, USA
- SO American Journal of Botany, (1994) Vol. 81, No. 7, pp. 833-842. CODEN: AJBOAA. ISSN: 0002-9122.
- DT Article
- LA English
- ED Entered STN: 23 Sep 1994

  Last Updated on STN: 23 Sep 1994
- AB Root hairs are specialized epidermal cells that are thought to play an important role in plant nutrition by facilitating the absorption of water and nutrients. Three maize mutants with abnormal root hair morphologies (rth1, rth2, and rth3) have been isolated from Mutator transposon stocks. All three root hair mutant phenotypes are controlled by single recessive alleles. The rth1 mutant initiates normal-looking root hair primordia that fail to elongate. The normal-looking root hair primordia of the rth2 mutant elongate to only approximately one-fifth to one-fourth the length of wild type root hairs. Like rth1 primordia, rth3 primordia undergo little elongation. However, unlike the relatively normal-looking rth1 primordia, rth3 primordia are distinctly abnormal when viewed through a scanning electron microscope. The rth1 mutant exhibits pleiotropic nutrient deficiencies, while the rth2 and rth3 mutants grow vigorously. This finding suggests that under some environmental conditions, root hairs are less important to plant growth than has been previously thought. The rth1, rth2, and rth3 genes have been mapped to chromosomes IL, 5L, and 1S, respectively, via crosses with BA translocation stocks. The rth2 allele exhibits reduced transmission through the male gametophyte, but a normal rate of transmission through female gametophytes; rthl and rth3 are transmitted at normal rates.
- L3 ANSWER 3 OF 4 CABA COPYRIGHT 2005 CABI on STN
- AN 83:91416 CABA
- DN 19831623804
- TI Mapping of dv and el
- AU Curtis, C.
- CS University of Missouri, Columbia, USA.
- SO Maize Genetics Cooperation News Letter, (1983) No. 57, pp. 31-32.
- DT Journal
- LA English
- ED Entered STN: 19941101
  - Last Updated on STN: 19941101
- AB Homozygous dv (divergent spindle) maize plants were crossed with some of the B-A translocation series. The various progeny families were enriched with respect to hypoploids and sporocytes were examined for the divergent spindle character. Results indicated that chromosome arms 1S, 5S, 5L, 6S, 7L and 9S do not contribute to this character. Families giving elel (elongate) segregates were also crossed to some B-A

translocations. Cytological examination of sporocytes of the progeny tentatively assigned el to the long arm of chromosome 8.

- L3 ANSWER 4 OF 4 CABA COPYRIGHT 2005 CABI on STN
- AN 77:56928 CABA
- DN 19761328431
- TI Bacterial leaf stripe of corn in the Philippines
- AU Karganilla, A. D.; Cabauatan, P. Q.
- CS Univ. Illinois, Urbana, USA.
- SO Philippine Agriculturist, (1974) Vol. 58, No. 3/4, pp. 105-114. 2 fig. ISSN: 0031-7454
- DT Journal
- LA English
- ED Entered STN: 19941101 Last Updated on STN: 19941101
- AB Symptoms on maize consist of narrow, irregular, elongate and water soaked lesions, later becoming thin, papery, translucent and brown to straw coloured. Leaf shredding was observed in severe cases. On morphological, cultural and physiological characteristics the causal bacterium was identified as Pseudomonas alboprecipitans [CMI Map 511].
- => s apomixis and maize
- L4 254 APOMIXIS AND MAIZE
- => duplicat remove 14

  DUPLICATE PREFERENCE IS 'BIOSIS, CAPLUS, CABA, AGRICOLA'

  KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

  PROCESSING COMPLETED FOR L4

  L5 205 DUPLICATE REMOVE L4 (49 DUPLICATES REMOVED)
- => d ti 1-50
- L5 ANSWER 1 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI RFLP methods and DNA markers for screening for introgression of novel genetic variation in maize and hybrids with Tripsacum and/or teosinte
- L5 ANSWER 2 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Rice LEC1 (leafy cotyledon 1 transcriptional activator) inducing somatic embryogenesis and apomixis, methods of using it to enhance plant transformation
- L5 ANSWER 3 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Esterase isoenzymes as markers for the VA 1 gene of Zea mays and for the B linkage group of Tripsacum dactyloides.
- L5 ANSWER 4 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Glutamate oxaloacetic transaminase and malate dehydrogenase isozymes of Zea mays L.XTripsacum dactyloides L. hybrids and parents.
- L5 ANSWER 5 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Genetic materials for transmission into maize.
- L5 ANSWER 6 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Heterochronic expression of sexual reproductive programs during apomictic development in Tripsacum.
- L5 ANSWER 7 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Engineering of apomixis in crop plants: what can we learn from sexual model systems?.
- L5 ANSWER 8 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Isozyme markers for 5S and 6L maize chromosomes and for "D" and "L" linkage groups of Tripsacum dactyloides L. related to the apomictic

## mode of reproduction

- L5 ANSWER 9 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Production of unreduced apomicts by diploidization of lines predisposed to reduced parthenogenesis.
- L5 ANSWER 10 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Sequence of plant protein CHD and uses in transformation of plant to induce somatic embryogenesis and apomixis
- L5 ANSWER 11 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Commercial plant breeding in South Africa.
- L5 ANSWER 12 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Glimpses into sexual plant reproduction: the pursuit of apomixis
- L5 ANSWER 13 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Flower-specific gene from maize and transgenic plants with a modified flower and seed development
- L5 ANSWER 14 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI A genetic linkage map of diploid Paspalum notatum.
- L5 ANSWER 15 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Strategies for isolating mutants in Hieracium with dysfunctional apomixis.
- L5 ANSWER 16 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Apomixis in Tripsacum: Comparative mapping of a multigene phenomenon.
- L5 ANSWER 17 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Tripsacum dactyloides (Poaceae): A natural model system to study parthenogenesis.
- L5 ANSWER 18 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI The effect of pollinator on kernel weight in pseudogamous apomictic corn-gamagrass hybrids.
- L5 ANSWER 19 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Genetic materials from hybrids of Tripsacum and perennial teosinte for transmission into maize
- L5 ANSWER 20 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Independent inheritance and expression of apomeiosis and parthenogenesis in maize-gama grass hybrids.
- L5 ANSWER 21 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI The genetic programs of nonreduction and parthenogenesis in corn-gamagrass hybrids are inherited and expressed in an independent manner.
- L5 ANSWER 22 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Genetic variation in the progeny of maize/Tripsacum hybrids.
- L5 ANSWER 23 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Plant genetic resources: What can they contribute toward increased crop productivity?.
- L5 ANSWER 24 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Commercial strategies for exploitation of heterosis.
- L5 ANSWER 25 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Inactivation of the imprinting effects in maize-Tripsacum hybrids.
- L5 ANSWER 26 OF 205 CABA COPYRIGHT 2005 CABI on STN

- TI Cytological and molecular evaluation of the reproductive behavior of Tripsacum andersonii and a female fertile derivative (Poaceae).
- L5 ANSWER 27 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Apomictically reproducing 39-chromosome maize-Tripsacum hybrids.
- L5 ANSWER 28 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Investigation of apomictic maize-Tripsacum hybrids.
- L5 ANSWER 29 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Apomictically reproducing 39-chromosome maize-tripsacum hybrids
- L5 ANSWER 30 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Investigation of apomictic maize-tripsacum hybrids
- L5 ANSWER 31 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI A genetic map of the apospory-region in Brachiaria hybrids: Identification of two markers closely associated with the trait.
- L5 ANSWER 32 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Plant regeneration from somatic culture of apomictic maize -Tripsacum hybrids.
- L5. ANSWER 33 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Improvement of anther culture response of apomictic maize -Tripsacum hybrids.
- L5 ANSWER 34 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Apomixis and endosperm development.
- L5 ANSWER 35 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Perspectives of developing apomixis in maize.
- 'L5 ANSWER 36 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Non-Mendelian transmission of apomixis in maize
  -Tripsacum hybrids caused by a transmission ratio distortion.
- L5 ANSWER 37 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Mapping diplosporous apomixis in tetraploid Tripsacum: One gene or several genes?.
- L5 ANSWER 38 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Apomictic reproduction by maize/Tripsacum hybrids using gene N and gene A for controlling nonreduction and apomictic development and using Mz6-Tr16 translocation
- L5 ANSWER 39 OF 205 CABA COPYRIGHT 2005 CABI on STN DUPLICATE 11
- TI The reproductive versatility of eastern gamagrass.
- L5 ANSWER 40 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Genetic fingerprinting for determining the mode of reproduction in Paspalum notatum, a subtropical apomictic forage grass.
- L5 ANSWER 41 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Megasporocyte callose in apomictic buffelgrass, Kentucky bluegrass, Pennisetum squamulatum Fresen, Tripsacum L., and weeping lovegrass.
- L5 ANSWER 42 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Identification of a maize linkage group related to apomixis in Brachiaria.
- L5 ANSWER 43 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Dosage effects in the endosperm of diplosporous apomictic Tripsacum (Poaceae).
- L5 ANSWER 44 OF 205 CABA COPYRIGHT 2005 CABİ on STN

- TI Possibilities of diagnosis of parthenogenesis by culture in vitro of unpollinated ovaries.
- L5 ANSWER 45 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Cytological manifestation of apomixis in AT-1 plants of corn.
- L5 ANSWER 46 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Development of seeds with haploid embryo on haploid plants of parthenogenetic line.
- L5 ANSWER 47 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Producing of parthenogenetic forms of maize.
- L5 ANSWER 48 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI The impact of plant molecular genetics.
- L5 ANSWER 49 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Registration of SG4X-1 germplasm of eastern gamagrass.
- L5 ANSWER 50 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Assignment of a gene(s) conferring apomixis in Tripsacum to a chromosome arm: Cytological and molecular evidence.
- => d bib abs 50 47 42 38 37 36 31
- L5 ANSWER 50 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- AN 1997:87668 BIOSIS
- DN PREV199799379381
- TI Assignment of a gene(s) conferring apomixis in Tripsacum to a chromosome arm: Cytological and molecular evidence.
- AU Kindiger, B. [Reprint author]; Bai, D. [Reprint author]; Sokolov, V.
- CS U.S. Dep. Agric., Agric. Res. Serv., Southern Plains Range Res. Stn., 2000 18th St., Woodward, OK 73801, USA
- SO Genome, (1996) Vol. 39, No. 6, pp. 1133-1141. CODEN: GENOE3. ISSN: 0831-2796.
- DT Article
- LA English
- ED Entered STN: 26 Feb 1997 Last Updated on STN: 26 Feb 1997
- Attempts are underway to locate and transfer genes conferring diplosporous AΒ apomixis from Tripsacum to maize. The objective of this study was to evaluate several apomictic and sexual maize -Tripsacum hybrids for the presence or absence of Tripsacum chromosomes, PCR-RAPD generated markers, and RFLP markers that would have an association with apomictic development. Cytological and molecular analysis resulted in the identification of the Tripsacum chromosome arm carrying the gene(s) conferring diplosporous apomixis. Evaluations made on apomictic sexually derived maize + Tripsacum addition lines and an apomictic line possessing a Mz6L-Tr16L translocation were used to establish the location of the gene(s). Results of the study indicate that the successful transfer of a single Tripsacum chromosome is all that is necessary to maintain apomictic reproduction in a maize background. Additional use of this material may facilitate the development of an apomictic maize prototype and the eventual isolation of the gene(s).
- L5 ANSWER 47 OF 205 CABA COPYRIGHT 2005 CABI on STN
- AN 97:103040 CABA
- DN 19971608059
- TI Producing of parthenogenetic forms of maize
- AU Tyrnov, V. S.
- CS Saratov State University, Saratov, Russia.
- SO Maize Genetics Cooperation Newsletter, (1997) No. 71, pp. 73-74.
- DT Journal
- LA English

- ED Entered STN: 19970916
  - Last Updated on STN: 19970916
- AB Characteristics of the parthogenetic maize line AT1 are briefly outlined. It was previously determined that parthenogenesis in AT1 is a nuclear-encoded trait. AT3, an analogue of AT1, has been produced which has yellow seeds, green leaves and white roots. Its use in elucidating the control of apomixis and in the synthesis of new apomictic forms is considered.
- L5 ANSWER 42 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- AN 1997:226712 BIOSIS
- DN PREV199799518428
- TI Identification of a maize linkage group related to apomixis in Brachiaria.
- AU Apessino, S. C. [Reprint author]; Ortiz, J. P. A.; Leblanc, O.; Do Valle, C. B.; Evans, C.; Hayward, M. D.
- CS Inst. Grassland and Environmental Res., Plas Gogerddan, Aberystwyth SY23 3EB, UK
- SO Theoretical and Applied Genetics, (1997) Vol. 94, No. 3-4, pp. 439-444. CODEN: THAGA6. ISSN: 0040-5752.
- DT Article
- LA English
- ED Entered STN: 22 May 1997 Last Updated on STN: 22 May 1997
- AB A bulked segregant analysis using RFLPs and RAPDs was carried out to identify molecular markers co-segregating with apomixis in a Brachiaria F-1 population. The test population used was a cross between sexual B. ruziziensis R44 and the aposporous apomictic Brachiaria brizantha cv Marandu. The Brachiaria genome was systematically scanned using 61 cDNA and genomic maize clones detecting 65 loci located at 40 cM, on average, one from each other in the maize genome. The finding of a clone that presented a polymorphic band `co-segregating with apomixis (umc147) led to the identification of another marker within the same area (umc72). The clones belong to a duplicated linkage group that maps to the distal part of maize chromosome-1 long arm and chromosome-5 short arm. RAPD analysis using 184 primers from Operon sets yielded one more marker (OPC4) significantly linked to the trait mapping the same locus. OPC4 had been previously reported as a potential marker for apospory in Pennisetum. A map of the region was constructed using additional clones that belong to the same maize linkage group. Since that was the only genomic region that presented an apomixislinked polymorphism our observations support the existence of a single locus directing apospory in Brachiaria.
- L5 ANSWER 38 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 1997:315331 CAPLUS
- DN 126:289018
- TI Apomictic reproduction by maize/Tripsacum hybrids using gene N and gene A for controlling nonreduction and apomictic development and using Mz6-Tr16 translocation
- IN Kindiger, Bryan K.; Sokolov, Victor
- PA United States Dept. of Agriculture, USA
- SO PCT Int. Appl., 62 pp.
  - CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

•	PATENT NO.					KIND		DATE		APPLICATION NO.						DATE			
ΡI	WO 9711167				A1 19970327			WO 1996-US15168						19960923					
		W:	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	
			EE,	ES,	FI,	GB,	GE,	HU,	IL,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	
			LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	
			RU,	SD,	SE,	SG,	SI,	SK,	TJ,	TM,	TR,	TT,	UA,	ΰG,	UZ,	VN,	AM,	ΑZ,	
			BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM										
		RW:	ΚE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	

```
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM
    US 5710367
                                19980120
                                           US 1995-532904
                         Α
                                                                   19950922
    CA 2229420
                          AΑ
                                19970327
                                           . CA 1996-2229420
                                                                   19960923
    AU 9673673
                         A1
                               .19970409
                                            AU 1996-73673
                                                                   19960923
    AU 736390
                          B2
                                20010726
    EP 851916
                         A1
                                19980708
                                            EP 1996-935892
                                                                   19960923
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
    CN 1202199
                         Α
                                19981216
                                            CN 1996-198378
                                                                   19960923
    BR 9610645
                                                                   19960923
                         Α
                                19990914
                                            BR 1996-10645
PRAI US 1995-532904
                         Α
                                19950922
    WO 1996-US15168
                         W
                                19960923
```

AB Apomictic maize/Tripsacum hybrids having a ratio of
maize chromosomes:Tripsacum chromosomes of at least 30:9 have been developed. These hybrids are useful for introgressing diplosporous apomictic reproduction into a maize background toward the ultimate goal of establishing immortalized com. lines of apomictic maize having stably inherited characteristics without the need for continuously producing hybrid seed by repeated crossings of selected parental lines. DNA primers for use in assaying maize/Tripsacum hybrids for apomictic reproduction behavior are provided.

- L5 ANSWER 37 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- AN 1998:121457 BIOSIS
- DN PREV199800121457
- TI Mapping diplosporous apomixis in tetraploid Tripsacum: One gene or several genes?.
- AU Grimanelli, Daniel [Reprint author]; Leblanc, Olivier; Espinosa, Elsa; Perotti, Enrico; Gonzalez De Leon, Diego; Savidan, Yves
- CS ORSTOM-CIMMYT, Apdo 6-641, 06600, Mexico DF, Mexico
- SO Heredity, (Jan., 1998) Vol. 80, No. 1, pp. 33-39. print. CODEN: HDTYAT. ISSN: 0018-067X.
- DT Article
- LA English
- ED Entered STN: 5 Mar 1998 Last Updated on STN: 5 Mar 1998
- AΒ Polyploids in Tripsacum, a wild relative of maize, reproduce through the diplosporous type of apomixis, an asexual mode of reproduction through seeds. Diplosporous apomixis involves both the failure of meiosis and the parthenogenetic development of the unreduced gametes, resulting in progenies that are exact genetic copies of the mother plant. Apomixis is believed to be controlled by one single dominant allele, responsible for the whole developmental process. Construction of a linkage map for the chromosome controlling diplosporous apomixis in Tripsacum was carried out in both tetraploid-apomictic and diploid-sexual Tripsacum species using maize restriction fragment length polymorphism (RFLP) probes. A high level of collinearity was observed between the Tripsacum chromosome carrying the control of apomixis and a duplicated segment in the maize genome. In the apomictic tetraploid, there was a strong restriction to recombination, as compared to the corresponding genomic segment in sexual plants and maize. This suggests that apomixis, although inherited as a single Mendelian allele, might really be controlled by a cluster of linked loci. The analysis also revealed the tetrasomic nature of the inheritance of the chromosomal segment controlling apomixis, which contradicts the usually accepted hypothesis of an allopolyploid origin of apomictic species. implications of these data for the transfer of apomixis into cultivated crops are discussed, and a new approach to studying the genetics of apomixis, based on comparative mapping, is proposed.
- L5 ANSWER 36 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- AN 1998:121458 BIOSIS
- DN PREV199800121458
- TI Non-Mendelian transmission of apomixis in maize
  -Tripsacum hybrids caused by a transmission ratio distortion.
- AU Grimanelli, Daniel [Reprint author]; Leblanc, Olivier; Espinosa, Elsa;

Perotti, Enrico; Gonzalez De Leon, Diego; Savidan, Yves

- CS ORSTOM-CIMMYT, Apdo 6-641, 06600 Mexico, DF, Mexico
- SO Heredity, (Jan., 1998) Vol. 80, No. 1, pp. 40-47. print. CODEN: HDTYAT. ISSN: 0018-067X.
- DT Article
- LA English
- ED Entered STN: 5 Mar 1998 Last Updated on STN: 5 Mar 1998
- AB Apomixis is a mode of asexual reproduction through seeds. apomictic process bypasses both meiosis and egg cell fertilization, producing offspring that are exact genetic replicas of the mother plant. In the Tripsacum agamic complex, all polyploids reproduce through the diplosporous type of apomixis, and diploids are sexual. In this paper, molecular markers linked with diplospory were used to analyse various generations of maize-Tripsacum hybrids and backcross derivatives and to derive a model for the inheritance of diplosporous reproduction. The results suggest that the gene or genes controlling apomixis in Tripsacum are linked with a segregation distorter-type system promoting the elimination of the apomixis alleles when transmitted through haploid gametes. Hence, this model offers an explanation of the relationship between apomixis and polyploidy. The evolutionary importance of this mechanism, which protects the diploid level from being invaded by apomixis, is discussed.
- L5 ANSWER 31 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- AN 1998:347226 BIOSIS
- DN PREV199800347226
- TI A genetic map of the apospory-region in Brachiaria hybrids: Identification of two markers closely associated with the trait.
- AU Pessino, Silvina C. [Reprint author]; Evans, Clive; Ortiz, Juan Pablo A.; Armstead, Ian; Valle, Cacilda B. Dos; Hayward, Michael D.
- CS PROMUBIE, Seccion Biol. Mol., Fac. Ciencias Bioquimicas Farmaceuticas, UNR, Suipacha 531, 2000 Rosario, Argentina
- SO Hereditas (Lund), (May, 1998) Vol. 128, No. 2, pp. 153-158. print. CODEN: HEREAY. ISSN: 0018-0661.
- DT Article
- LA English
- ED Entered STN: 13 Aug 1998 Last Updated on STN: 13 Aug 1998
- AB The objective of this work was to identify molecular markers tightly linked to the gene controlling apospory in a hybrid population derived from a cross between apomictic Brachiaria brizantha and sexual Brachiaria ruziziensis. Since a maize chromosome 5 linkage group had previously been associated with the apomixis locus in Brachiaria we used twenty-five RFLP clones that map in detail maize chromosome 5 to cover systematically all syntenic regions of the hybrid genome. Forty-six AFLP markers were also generated. Three RFLP markers (detected by rz567, rz273, and cdo507) and two AFLP markers (PAM52-5 and PAM49-13) appeared to be related to the apo-region. Segregation data, together with previously reported data (corresponding to RFLP markers umc147, umc72, csu134, csu149 and RAPD marker OPC4) were used to generate a complete map of the region. Markers PAM52-5 and PAM49-13 were located respectively at 1.2 cM and 5.7 cM either side of the target locus. The map shows close synteny to regions of maize chromosome 5 and rice chromosome 2.

## => d ti 51-70

- L5 ANSWER 51 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Evaluation of apomictic reproduction in a set of 39 chromosome maize-Tripsacum backcross hybrids.
- L5 ANSWER 52 OF 205 CAPLUS COPYRIGHT 2005 ACS on STN
- TI A comparative analysis of apomixis in maize-tripsacum hybrids and gamagrass

- L5 ANSWER 53 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Perspectives of developing apomixis in maize.
- L5 ANSWER 54 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI A system for genetic change in apomictic eastern gamagrass.
- L5 ANSWER 55 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Registration of FGT-1 eastern gamagrass germplasm.
- L5 ANSWER 56 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Prospects for obtaining apomixis in maize.
- L5 ANSWER 57 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Reproductive behavior in maize-tripsacum polyhaploid plants: Implications for the transfer of apomixis into maize.
- L5 ANSWER 58 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI A comparison of apomictic reproduction in eastern gamagrass (Tripsacum dactyloides (L.) L.) and maize-Tripsacum hybrids.
- L5 ANSWER 59 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Studies on the genetic control of apomixis in Tripsacum.
- L5 ANSWER 60 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Detection of the apomictic mode of reproduction in maize
  -Tripsacum hybrids using maize RFLP markers.
- L5 ANSWER 61 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Induced mutations and molecular techniques for crop improvement. Proceedings, Vienna, Austria, 19-23 June 1995.
- L5 ANSWER 62 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Chromosome doubling in Tripsacum: the production of artificial, sexual tetraploid plants.
- L5 ANSWER 63 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Apomixis and F1 hybrids.
- L5 ANSWER 64 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Grass inflorescence and spikelet culture: An appraisal.
- L5 ANSWER 65 OF 205 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
- TI Megasporogenesis and megagametogenesis in several Tripsacum species (Poaceae).
- L5 ANSWER 66 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI [The promise of apomixis].

  Les promesses de l'apomixie.
- L5 ANSWER 67 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Series of latest achievements obtained on utilization of crop germplasm resources in China.
- L5 ANSWER 68 OF 205 CABA COPYRIGHT 2005 CABI on STN
- TI Timing of megasporogenesis in Tripsacum species (Poaceae) as related to the control of apomixis and sexuality.
- L5 ANSWER 69 OF 205 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- TI Maize X Tripsacum hybridization and the potential for apomixis transfer for maize improvement.
- L5 ANSWER 70 OF 205 CABA COPYRIGHT 2005 CABI on STN

- TI Apomixis: exploiting hybrid vigor in rice.
- => s 15 and map?
- L6 15 L5 AND MAP?
- => d ti 1-15
- L6 ANSWER 1 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI A genetic linkage map of diploid Paspalum notatum.
- L6 ANSWER 2 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Apomixis in Tripsacum: Comparative mapping of a multigene phenomenon.
- L6 . ANSWER 3 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Apomictically reproducing 39-chromosome maize-Tripsacum hybrids.
- L6 ANSWER 4 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI A genetic map of the apospory-region in Brachiaria hybrids: Identification of two markers closely associated with the trait.
- L6 ANSWER 5 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Mapping diplosporous apomixis in tetraploid Tripsacum: One gene or several genes?.
- L6 ANSWER 6 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Identification of a maize linkage group related to apomixis in Brachiaria.
- L6 ANSWER 7 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Assignment of a gene(s) conferring apomixis in Tripsacum to a chromosome arm: Cytological and molecular evidence.
- L6 ANSWER 8 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Detection of the apomictic mode of reproduction in maize -Tripsacum hybrids using maize RFLP markers.
- L6 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Isozyme markers for 5S and 6L maize chromosomes and for "D" and .
  "L" linkage groups of Tripsacum dactyloides L. related to the apomictic mode of reproduction
- L6 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Apomictically reproducing 39-chromosome maize-tripsacum hybrids
- L6 ANSWER 11 OF 15 CABA COPYRIGHT 2005 CABI on STN
- TI The impact of plant molecular genetics.
- L6 ANSWER 12 OF 15 CABA COPYRIGHT 2005 CABI on STN
- TI Apomixis and Fl hybrids.
- L6 ANSWER 13 OF 15 CABA COPYRIGHT 2005 CABI on STN
- TI Induced mutations and molecular techniques for crop improvement. Proceedings, Vienna, Austria, 19-23 June 1995.
- L6 ANSWER 14 OF 15 CABA COPYRIGHT 2005 CABI on STN
- TI [The promise of apomixis].
  Les promesses de l'apomixie.
- L6 ANSWER 15 OF 15 CABA COPYRIGHT 2005 CABI on STN
- TI Plant breeding perspectives.

- L6 ANSWER 11 OF 15 CABA COPYRIGHT 2005 CABI on STN
- AN 97:39381 CABA
- DN 19971602449
- TI The impact of plant molecular genetics
- .AU Sobral, B. W. S. [EDITOR]

ISBN: 0-8176-3802-4

- CS CAMBIA Americas, 11099 North Torrey Pines Road, Suite 295, La Jolla, CA 92037, USA.
- SO The impact of plant molecular genetics, (1996) pp. xvii + 348. ref. at ends of chapters.
  Publisher: Birkhauser Boston Inc. Cambridge
- CY United States
- DT Book
- LA English
- ED Entered STN: 19970422 Last Updated on STN: 19970422
- AB This multiauthor book contains the following sections (and chapters): (1) Genetics and breeding (genetics of polyploids, validation strategies for QTL mapping, complex trait dissection in forest trees using molecular markers, the use of comparative genome mapping in the identification, cloning and manipulation of important plant genes; the potential impacts of apomixis: a molecular genetics approach; and the role of meiotic recombination in generating novel genetic variability); (2) Evolution and phylogenetics (molecular markers in plant conservation genetics, identifying links between genotype and phenotype using marker loci and candidate genes; integrating genetics, phylogenetics and developmental biology; molecular variation and the delimitation of species); (3) Microorganisms in agriculture: two examples (application of the polymerase chain reaction to the detection of plant pathogens; molecular approaches to understanding and manipulating field ecology of microorganisms in agriculture); (4) Tools: software and hardware (informatics and genomic research; instrumentation for automated molecular marker acquisition and analysis); (5) The experience of molecular marker assisted breeding (including molecular biology and traditional breeding applied to the improvement of maize nutritional quality); and (6) Examples of social and economic impact of new technologies (economic impact of molecular genetics on international forestry, molecular anthropology of cassava cyanogenesis, structural adjustment and biotechnological demand in South America; the case of Brazil).
- L6 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2004:241035 CAPLUS
- DN 141:389467
- TI Isozyme markers for 5S and 6L maize chromosomes and for "D" and "L" linkage groups of Tripsacum dactyloides L. related to the apomictic mode of reproduction
- AU Tsanev, V.; Vladova, R.; Petkolicheva, K.; Kraptchev, B.; Milanov, C.
- CS Acad. D. Kostoff Institute of Genetics, Bulgarian Academy of Sciences, Sofia, 1113, Bulg.
- SO Dokladi na Bulgarskata Akademiya na Naukite (2003), 56(6), 99-104 CODEN: DBANEH; ISSN: 0861-1459
- PB Bulgarska Akademiya na Naukite
- DT Journal
- LA English
- AB Isoenzymes of glutamate oxaloacetic transaminase and malate dehydrogenase of Zea mays L. + Tripsacum dactyloides L. hybrids and their parents were studied. The results suggested that isoforms of these enzymes may be used as markers of genes localized on 5S and 6L maize chromosomes and on linkage groups "D" and "L" of T. dactyloides which have
- a regulatory effect on the fertility and on the apomictic mode of reproduction
- RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 8 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- AN 1995:361904 BIOSIS
- DN PREV199598376204

- TI Detection of the apomictic mode of reproduction in maize -Tripsacum hybrids using maize RFLP markers.
- AU Leblanc, O. [Reprint author]; Grimanelli, D.; Gonzalez-De-Leon, D.; Savidan, Y.
- CS ORSTOM, Lab. Ressources Genet. d'Amelioration Plantes Tropicales, BP 5045, 34032 Montpellier Cedex, France
- SO Theoretical and Applied Genetics, (1995) Vol. 90, No. 7-8, pp. 1198-1203. CODEN: THAGA6. ISSN: 0040-5752.
- DT Article
- LA English
- ED Entered STN: 30 Aug 1995 Last Updated on STN: 30 Aug 1995
- Polyploid plants in the genus Tripsacum, a wild relative of maize AΒ , reproduce through gametophytic apomixis of the diplosporous type, an asexual mode of reproduction through seed. Moving gene(s) responsible for the apomictic trait into crop plants would open new areas in plant breeding and agriculture. Efforts to transfer apomixis from Tripsacum into maize at CIMMYT resulted in numerous intergeneric F-1 hybrids obtained from various Tripsacum species. A bulk-segregant analysis was carried out to identify molecular markers linked to diplospory in T. dactyloides. This was possible because of numerous genome similarities among related species in the Andropogoneae. On the basis of maize RFLP probes. three restriction fragments co-segregating with diplospory were identified in one maize -Tripsacum dactyloides F, population that segregated 1:1 for the mode of reproduction. The markers were also found to be linked in the maize RFLP map, on the distal end of the long arm of chromosome 6. These results support a simple inheritance of diplospory in Tripsacum. Manipulation of the mode of reproduction in maize -Tripsacum backcross generations, and implications for the transfer of apomixis into maize, are discussed.
- L6 ANSWER 2 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- AN 2001:245931 BIOSIS
- DN PREV200100245931
- TI Apomixis in Tripsacum: Comparative mapping of a multigene phenomenon.
- AU Blakey, C. A.; Goldman, S. L. [Reprint author]; Dewald, C. L.
- CS Plant Science Research Facility, University of Toledo, Toledo, OH, 43606, USA
- SO Genome, (April, 2001) Vol. 44, No. 2, pp. 222-230. print. CODEN: GENOE3. ISSN: 0831-2796.
- DT Article
- LA English
- ED Entered STN: 23 May 2001 Last Updated on STN: 19 Feb 2002
- AB A relationship has been established between the expression of apomixis in natural polyploids of Tripsacum dactyloides and fertility as measured by percent seed set. Thus, fertility may be reliably used as a defining phenotype for apomixis when scoring the progeny from diploid  $(2n = 2x = 36) \times \text{tetraploid} (2n = 4x = 72)$ crosses in Tripsacum. By exploiting the relationship between apomixis and fertility, as defined by seed set, analyses were performed on a set of related second-generation triploid populations segregating for apomixis. These populations were derived from sexual (diploid) X apomictic (tetraploid) crosses. Six out of 25 genome-dispersed restriction fragment length polymorphism (RFLP) markers co-segregate with fertility. Five of these markers were previously reported and include: php20855, tda48, tda53, umc62, and umc83, and are linked to Tripsacum genetic linkage groups F, I, H, L, and A, respectively. Significantly, we report here the syntenic relationships of the maize chromosome intervals to Tripsacum that segregate for numerous meiosis-specific and fertility-associated genes. Utilizing RFLP locus comparative mapping based on conservation of chromosome (genic) regions between related species, it may be concluded that the genes controlling fertility have been preserved in both Tripsacum and

maize. A sixth marker, umcl66, has also been shown to co-segregate with fertility and is conserved in both grass species. Specifically, umcl66 is linked to Tripsacum linkage group D and, by syntenic comparison, to the short arm of maize chromosome 5. Encoded within this marked interval is the gene Ameioticl (Aml) whose function is required for the initiation of meiosis in both micro- and megaspore mother cells and whose absence of expression in the female is, in all likelihood, a prerequisite for the expression of apomixis

- L6 ANSWER 1 OF 15 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- AN 2001:425992 BIOSIS
- DN PREV200100425992
- TI A genetic linkage map of diploid Paspalum notatum.
- AU Ortiz, Juan Pablo A. [Reprint author]; Pessino, Silvina C.; Bhat, Vishnu; Hayward, Michael D.; Quarin, Camilo L.
- CS Instituto de Botanica del Nordeste (IBONE), Facultad de Ciencias Agrarias, UNNE, 3400, Corrientes, Argentina jortiz@agatha.unr.edu.ar
- SO Crop Science, (May-June, 2001) Vol. 41, No. 3, pp. 823-830. print. CODEN: CRPSAY. ISSN: 0011-183X.
- DT Article
- LA English
- ED Entered STN: 12 Sep 2001 Last Updated on STN: 22 Feb 2002
- AB Paspalum notatum Flugge is a subtropical grass native to South America. The most common form in the USA is P. notatum var. saurae Parodi (Pensacola bahiagrass), which is a valuable forage. Pensacola bahiagrass is a sexual diploid, while most other races of P. notatum are apomictic tetraploids. The objective of this work was the construction of a genetic linkage map of diploid P. notatum (2n = 2x = 20) that can be used as a framework for basic genetic studies as well as breeding purposes. The mapping population derived from a cross between the genotypes Q408410 and Tift9 that originated from Cayasta, Santa Fe, Argentina, and Tifton, GA, USA, respectively. Heterologous restriction fragment length polymorphism (RFLP) clones of maize (Zea mays L.), rice (Oryza sativa L.), and oat (Avena sativa L.) were used to cover the Paspalum genome uniformly in a comparative approach, while random amplified polymorphic DNA (RAPD) and amplified fragment length polymorphism (AFLP) markers were added to condense the linkage groups. A combined map was constructed with the markers segregating from both parental genotypes by the program JoinMap 1.4. A total of 149 marker loci were used for map construction. One hundred twelve loci were allocated to 10 linkage groups, covering a total map distance of 991 centimorgan (cM). The average distance between markers was about 9 cM. Paspalum Linkage Groups 1, 3, 4, 5, 6, 8, and 10 showed syntenic regions with maps of maize and rice. Moreover, several RFLP loci reported to be associated with apomixis in hybrids of maize-Tripsacum and Brachiaria were located on the map. This study provides a genetic linkage map of a subtropical forage grass with both sexual and apomictic forms, which can be used for investigating simple and complex traits.

=> logoff hold

STN INTERNATIONAL SESSION SUSPENDED AT 13:12:00 ON 22 AUG 2005